

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 17877 - L2 Version 1
Chandra X-Ray Center

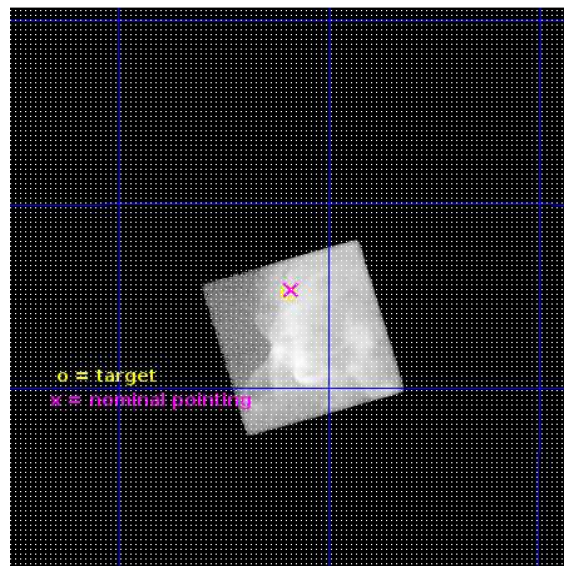
L2 Processing Date : Nov 8 2016

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1 Front

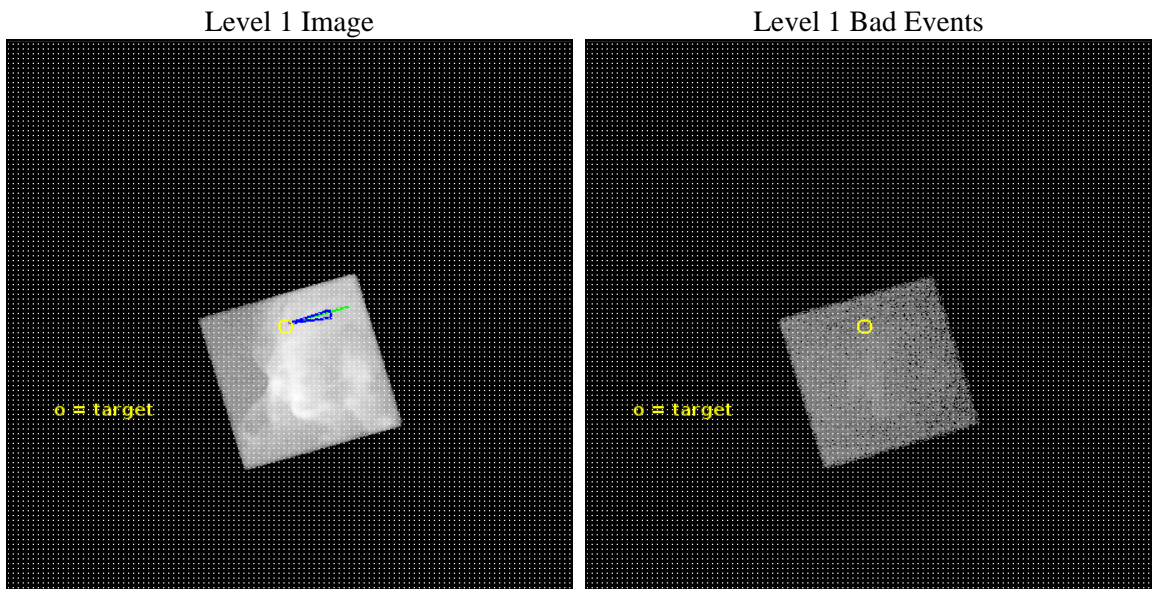
seq_num	502496	Sequence number
obs_id	17877	Observation id
title	Kinematics and Emission Processes at the Prominent Shock-Cloud Interaction Site in Puppis~A	Proposal title
observer	Dr. Satoru Katsuda	Principal investigator
object	Puppis A Eastern Bright Knot	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	126.047917	Observer's specified target RA [deg]
dec_targ	-42.914056	Observer's specified target Dec [deg]
ra_nom	126.04469755518	Nominal RA [deg]
dec_nom	-42.911374845092	Nominal Dec [deg]
roll_nom	73.362275757945	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20092.930195332	Sum of GTIs [s]
livetime	19821.768403571	Livetime [s]
ontime7	20092.930195332	Sum of GTIs [s]
l2events	1601528	Number of level 2 events



2 OBI

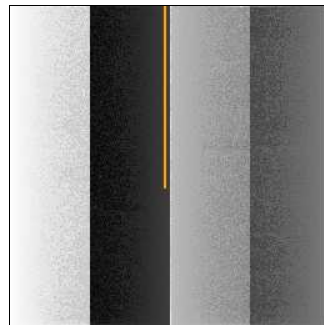
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.744000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20092.930195332	Sum of GTIs [s]
caldbver	4.7.2	 	ontime7	20092.930195332	Sum of GTIs [s]
date	2016-11-08T06:20:19	Date and time of file creation	l1events	1728606	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

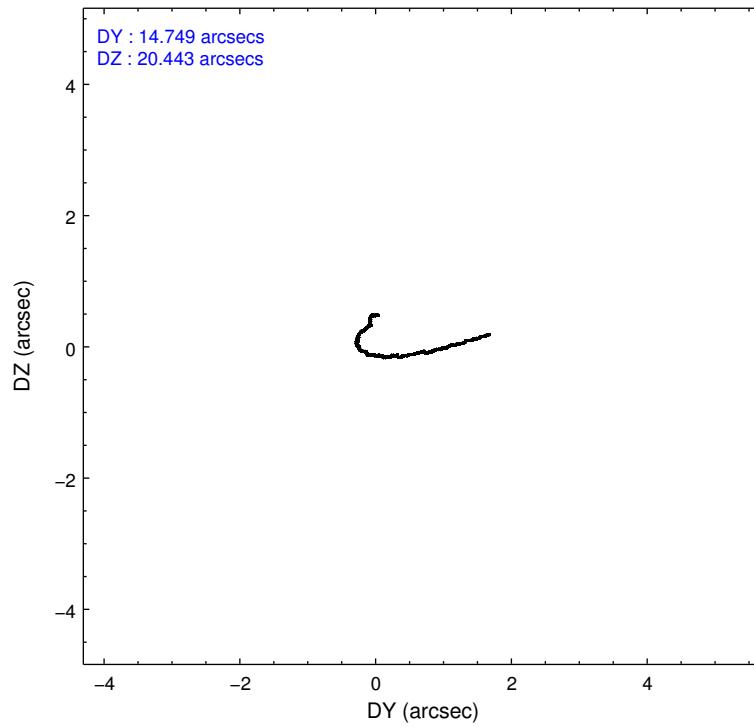
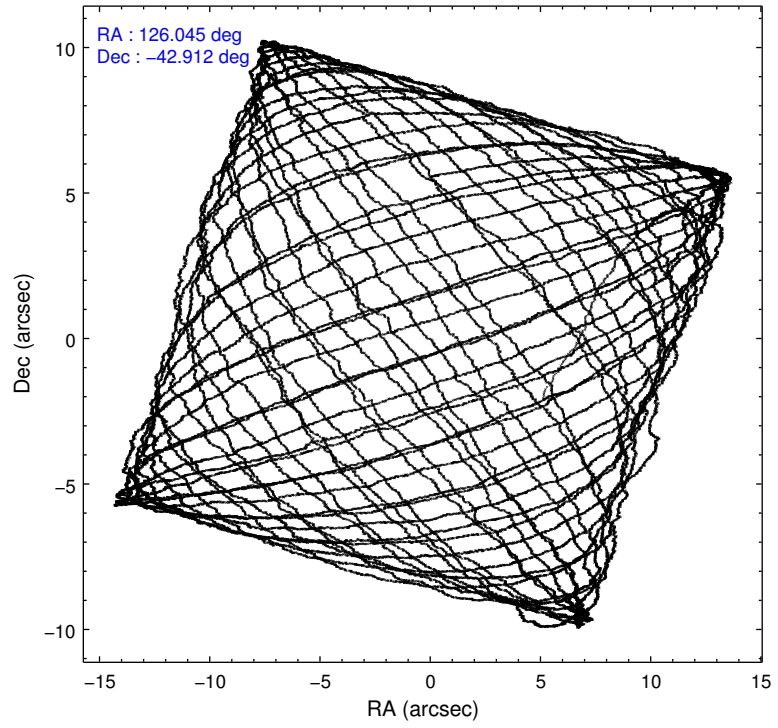
	ccd 7
level 1 events	1728606
rejected events	110771
rejected %	6%

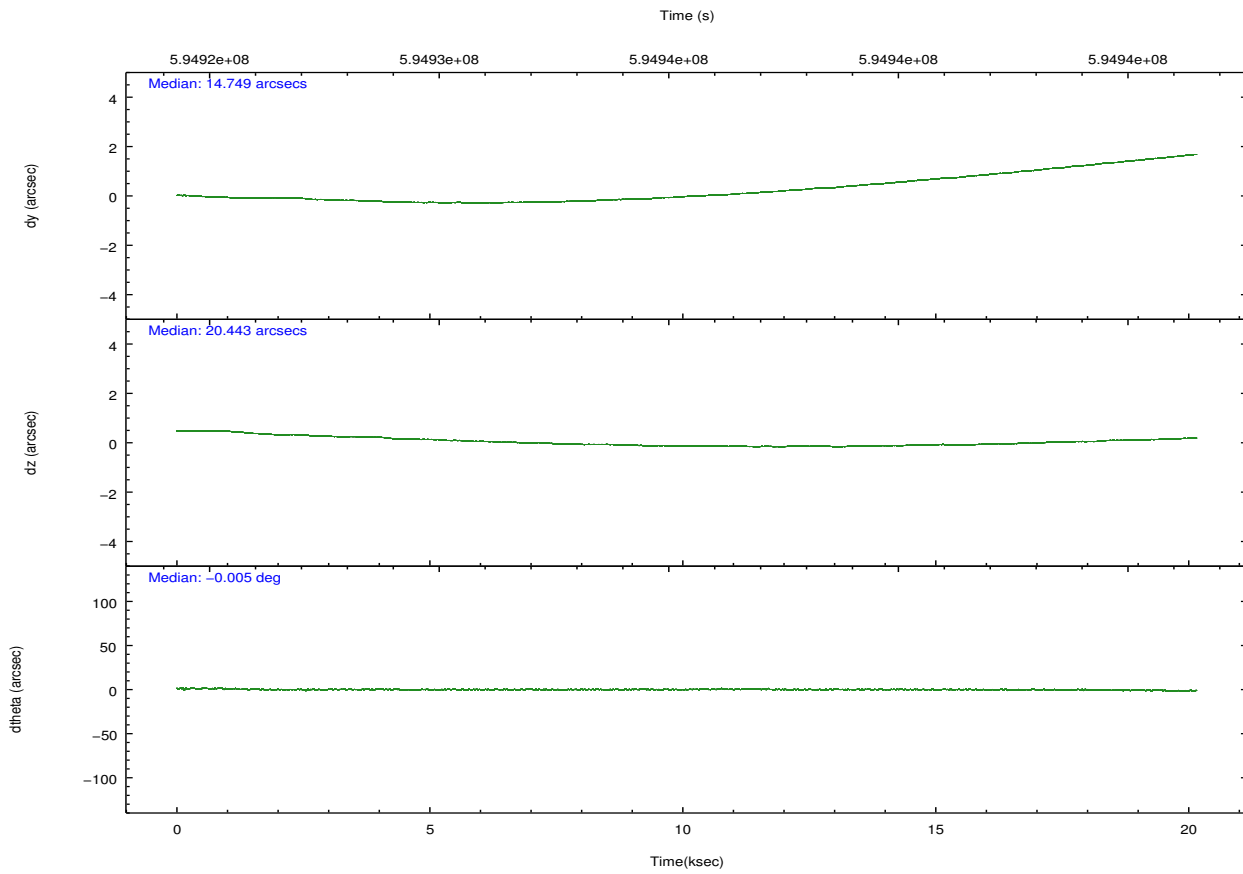
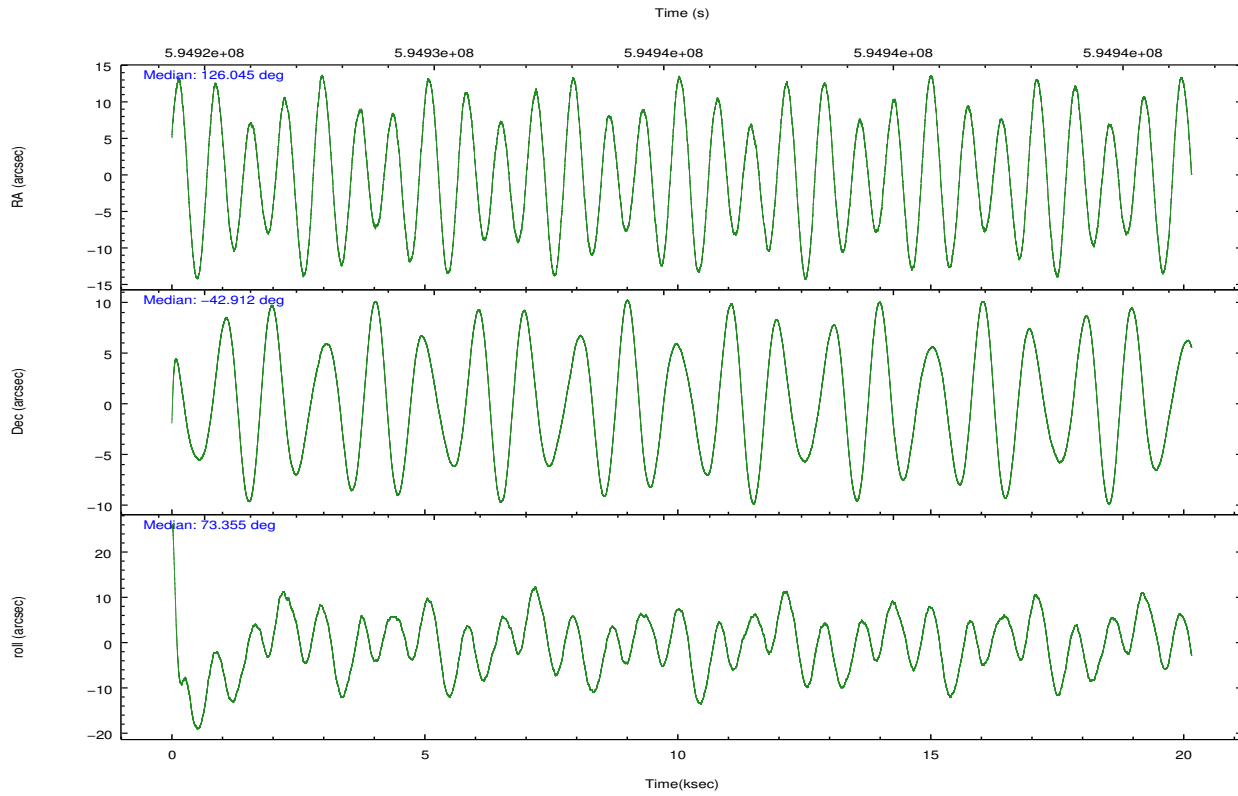
	ccd 7
grade 0 events	516364
	29%
grade 1 events	1168
	0%
grade 2 events	444681
	25%
grade 3 events	190309
	11%
grade 4 events	187484
	10%
grade 5 events	28390
	1%
grade 6 events	279511
	16%
grade 7 events	80699
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	126.053806	126.0446975551779	Subarray requested	NONE	NONE
[deg] Pointing Dec	-42.937995	-42.91137484509153	Alternating exposures requested	N	N
[deg] Pointing Roll	73.211827	73.36227575794544	[s] Primary exposure time	0.000000	3
[deg] Roll angle	76.295000	76.295000			
[deg] Roll tolerance	5.000000	5.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	594925477.184000	594924386.9548301			
Observation start date	2016-11-07T17:03:29	2016-11-07T16:46:26			
[s] Observation end time (MET)	594945477.184000	594945697.73106			
Observation end date	2016-11-07T22:36:49	2016-11-07T22:41:37			
Read mode	TIMED	TIMED			

2.3 Aspect





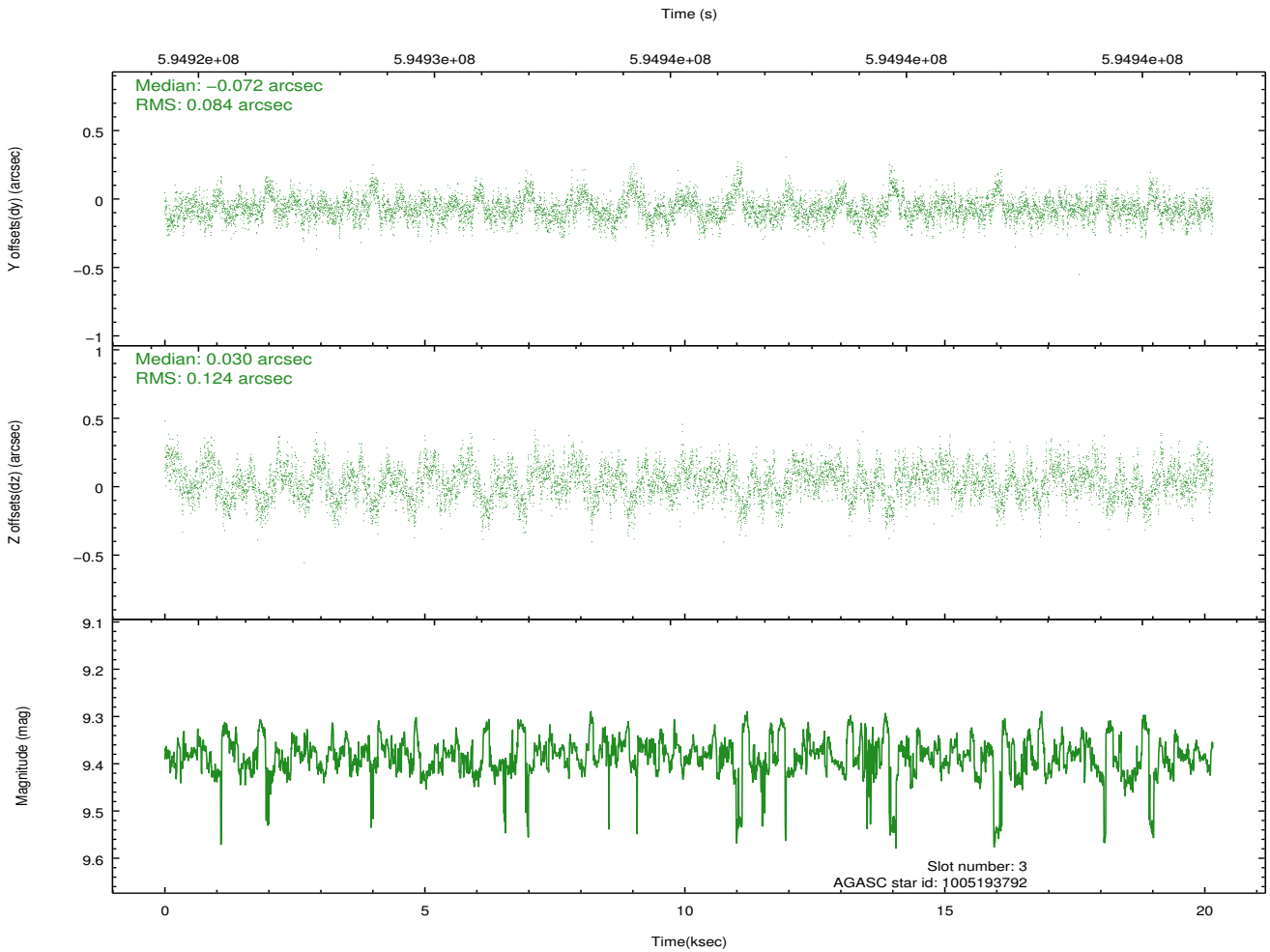
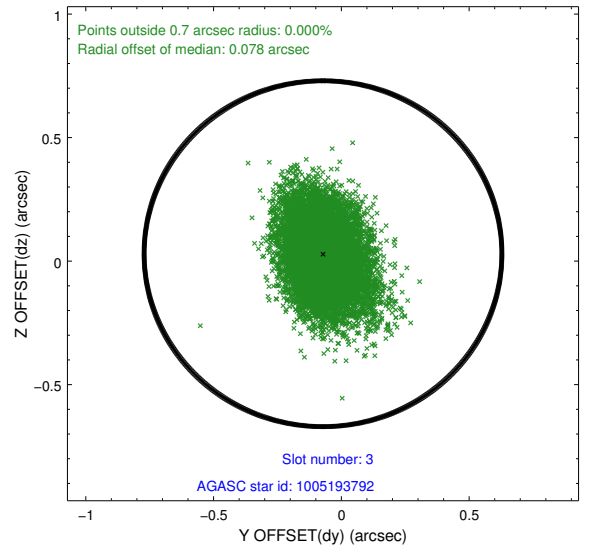
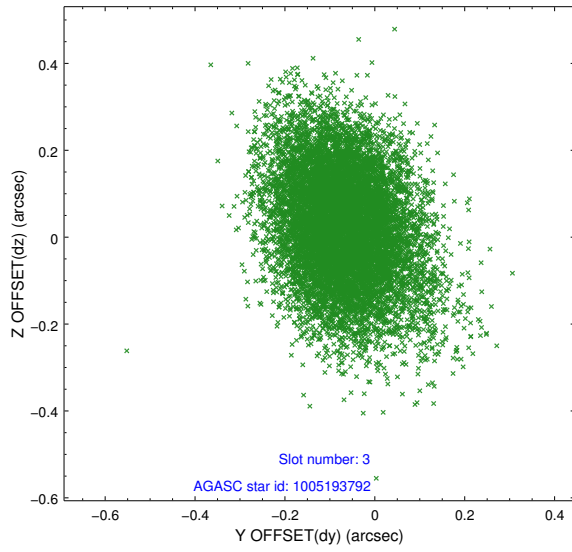
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	4917	-0.199	-0.062	0.009	0.015	0.000000	0.000000	-768.19	-1742.04
1	FID		ACIS-S-4	7.07	4917	0.428	0.113	0.010	0.020	0.000000	0.000000	2145.61	166.45
2	FID		ACIS-S-5	7.08	4917	-0.259	-0.041	0.013	0.020	0.000000	0.000000	-1820.87	160.14
3	GUIDE	used	1005193792	9.38	9822	-0.072	0.030	0.156	0.265	126.944513	-42.886417	845.16	-2198.44
4	GUIDE	used	1005723560	8.44	9831	0.228	0.097	0.108	0.175	126.279097	-43.364629	-1299.94	-1008.12
5	GUIDE	used	1005724040	7.56	9831	-0.036	-0.298	0.114	0.194	125.738175	-43.227880	-1239.53	490.80
6	GUIDE	used	1005728336	8.20	9830	0.173	0.217	0.101	0.167	126.658989	-43.408597	-1169.50	-2005.70
7	GUIDE	used	1005201896	8.50	9825	-0.308	-0.041	0.100	0.165	126.670468	-42.695868	1300.31	-1311.62

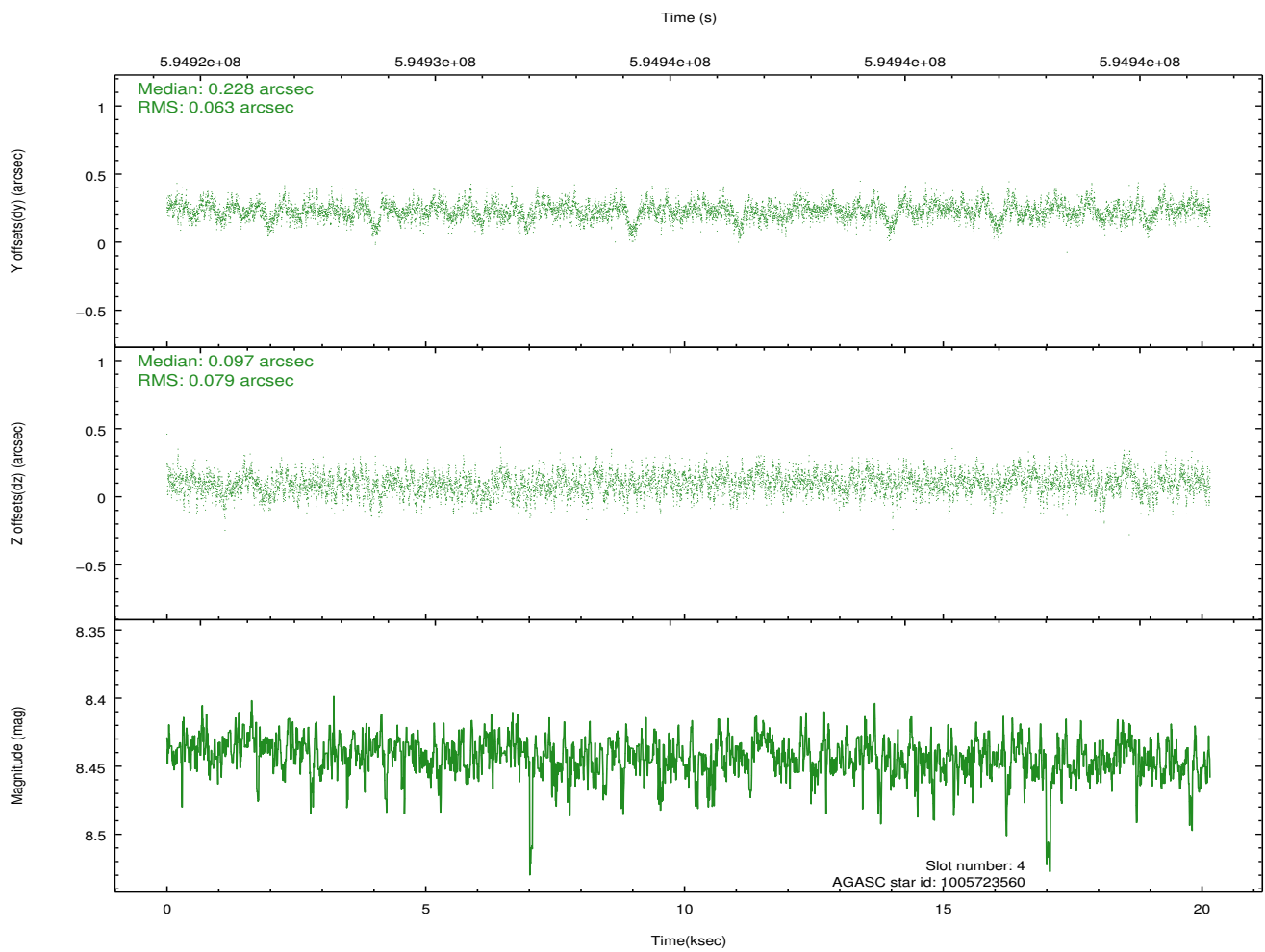
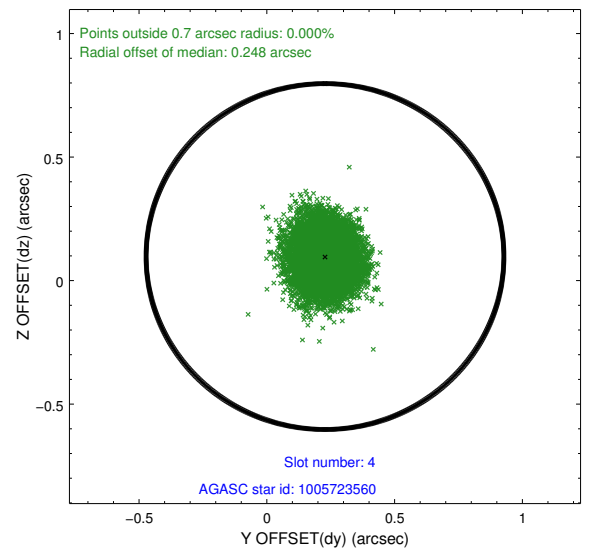
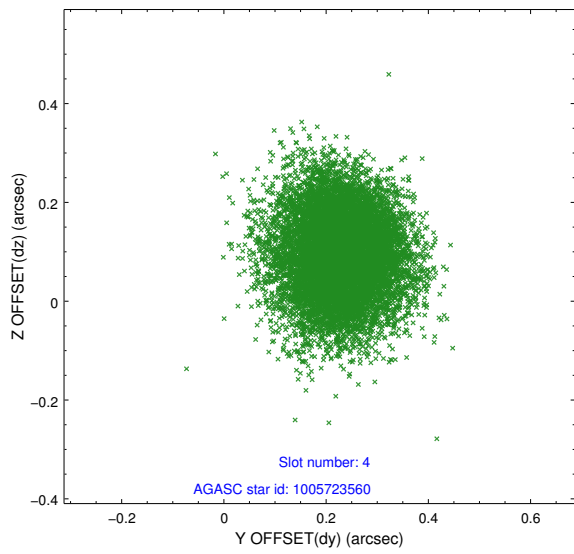
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2.4 Star Slots

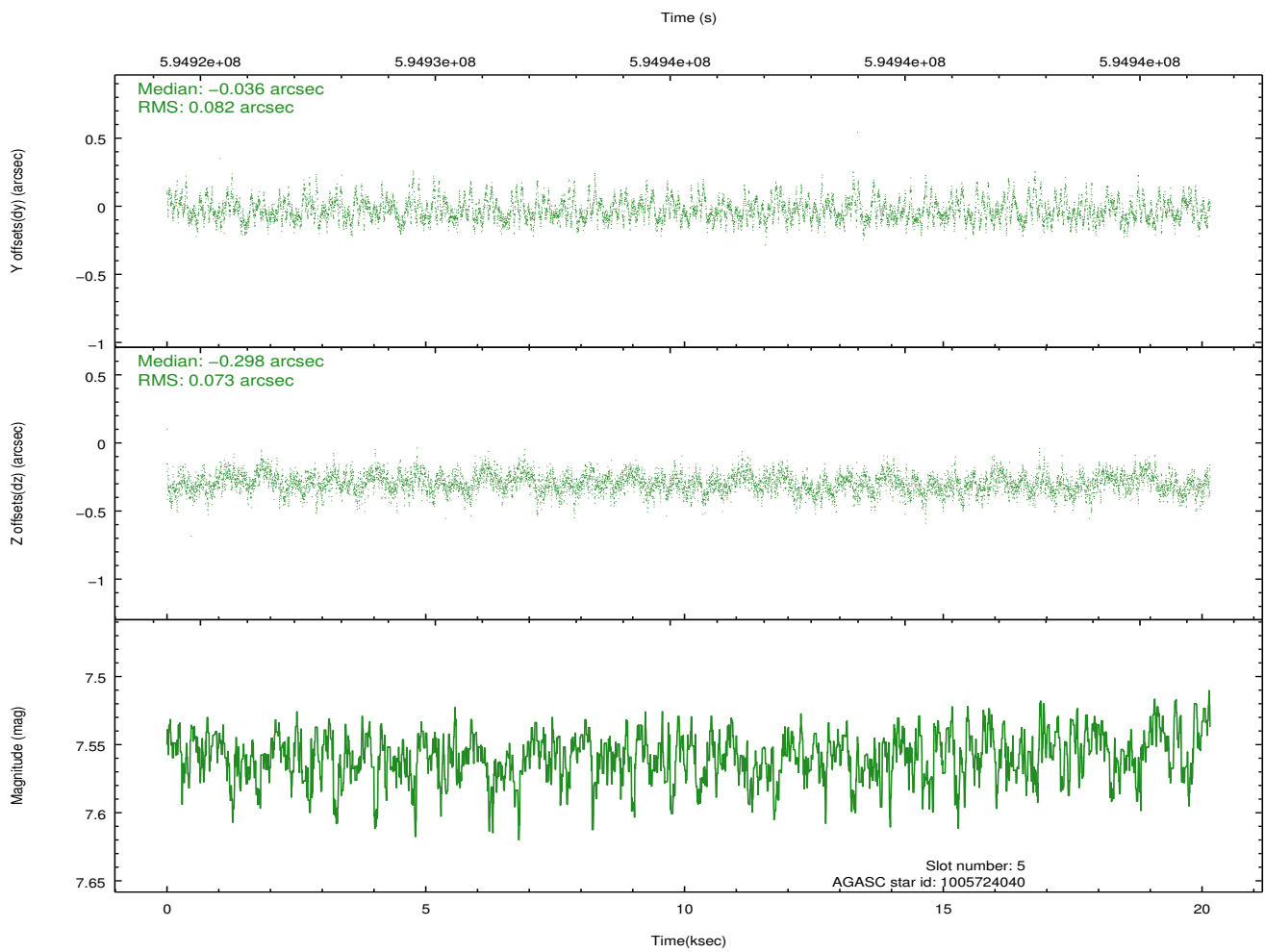
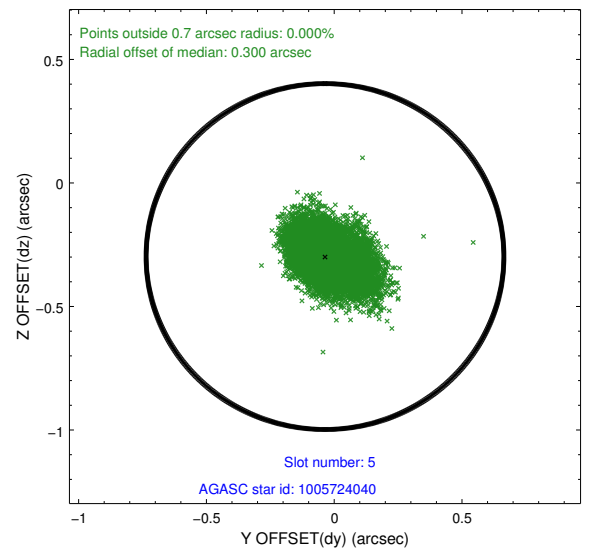
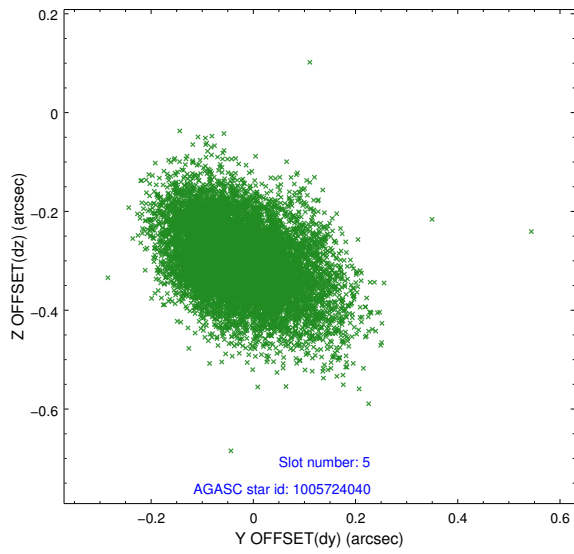
2.4.1 Slot 3



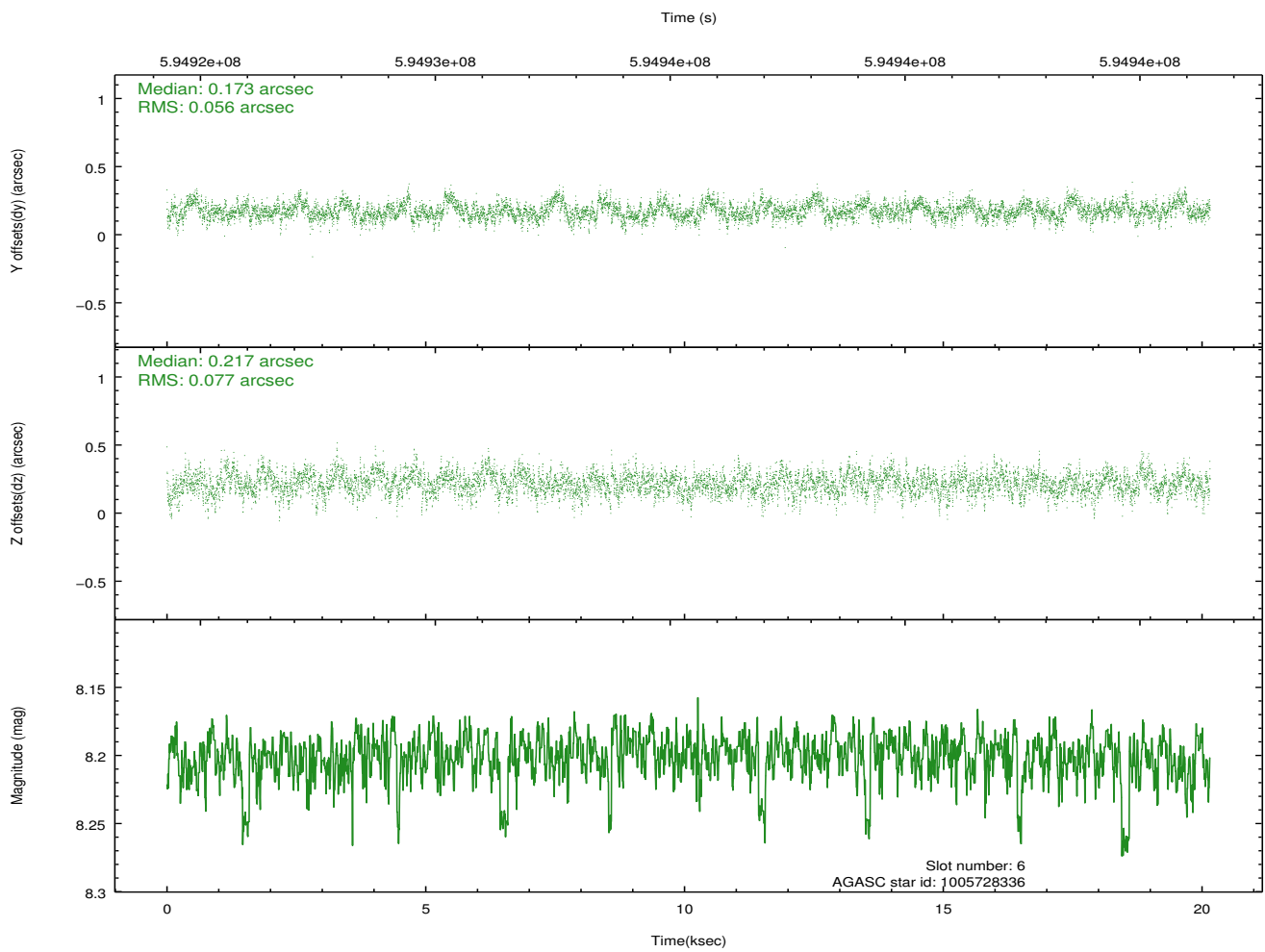
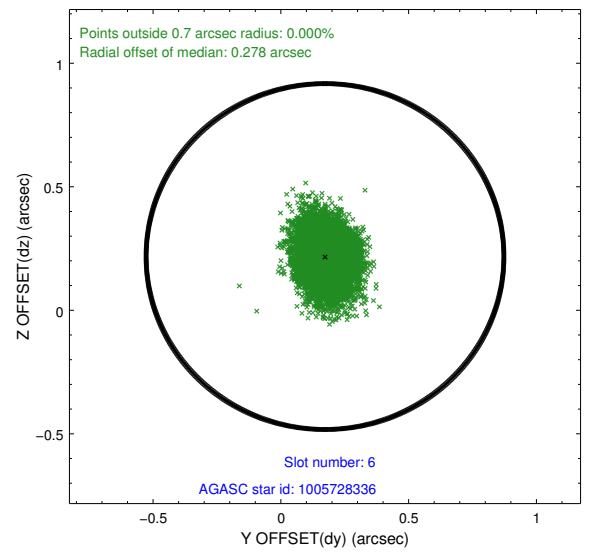
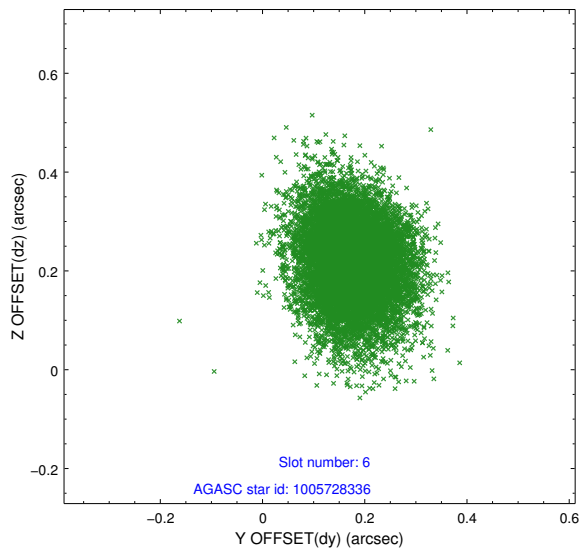
2.4.2 Slot 4



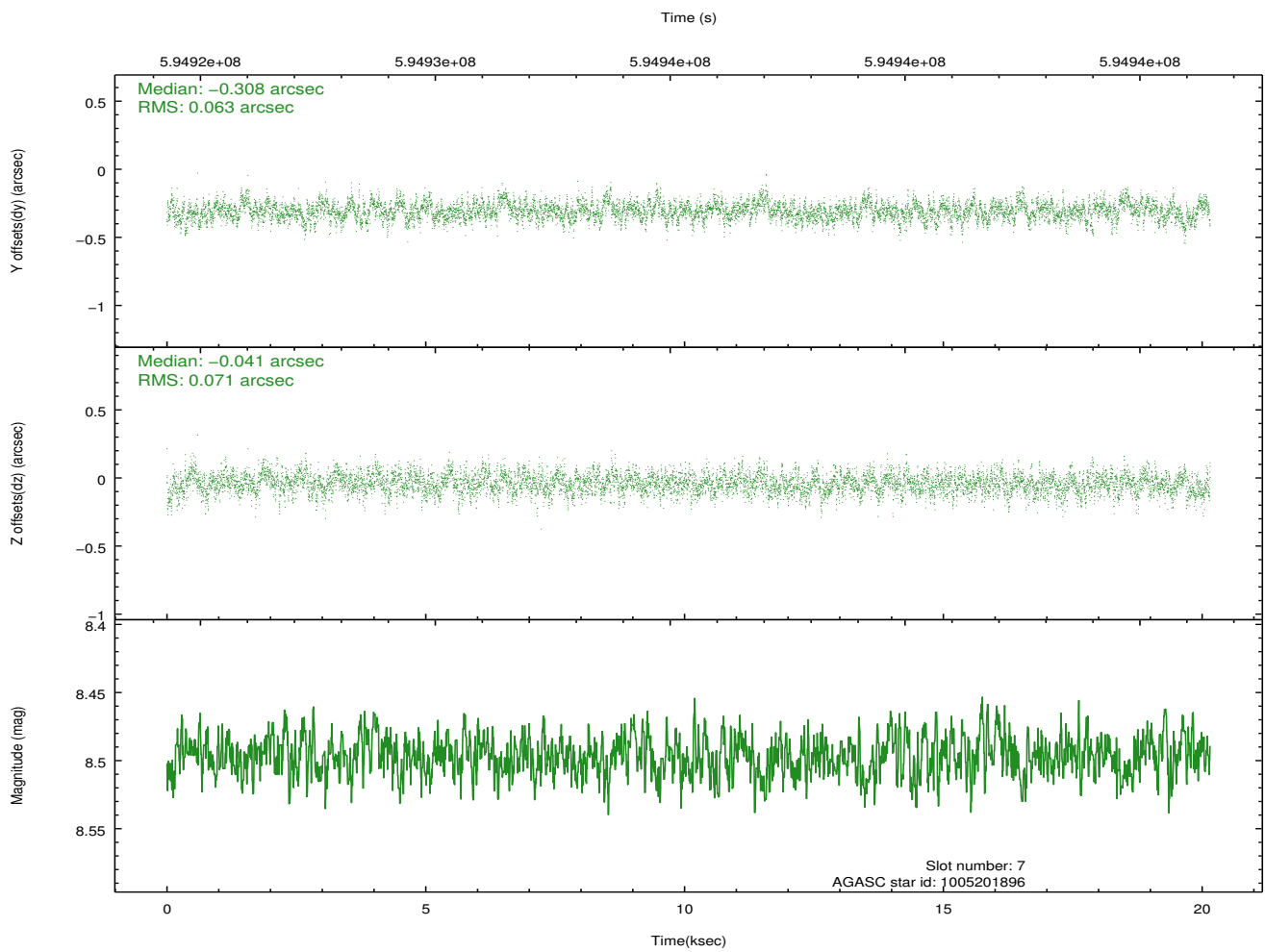
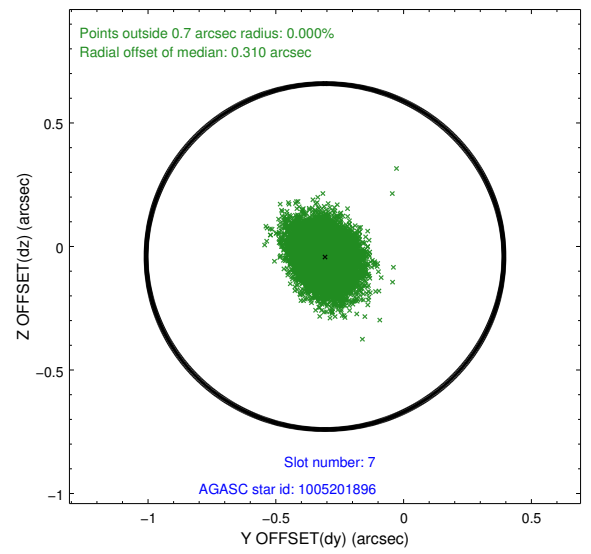
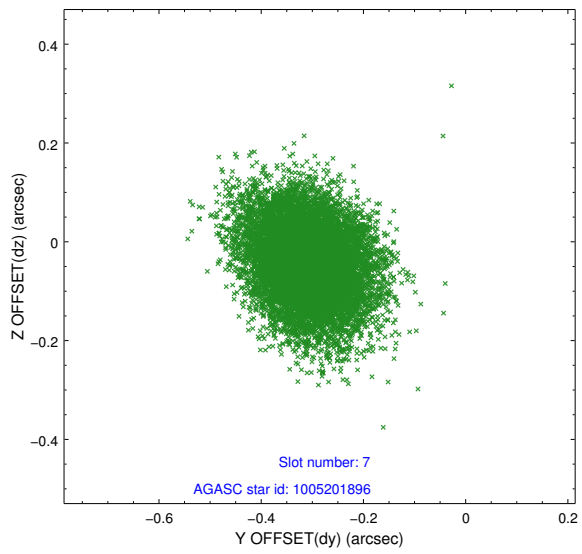
2.4.3 Slot 5



2.4.4 Slot 6

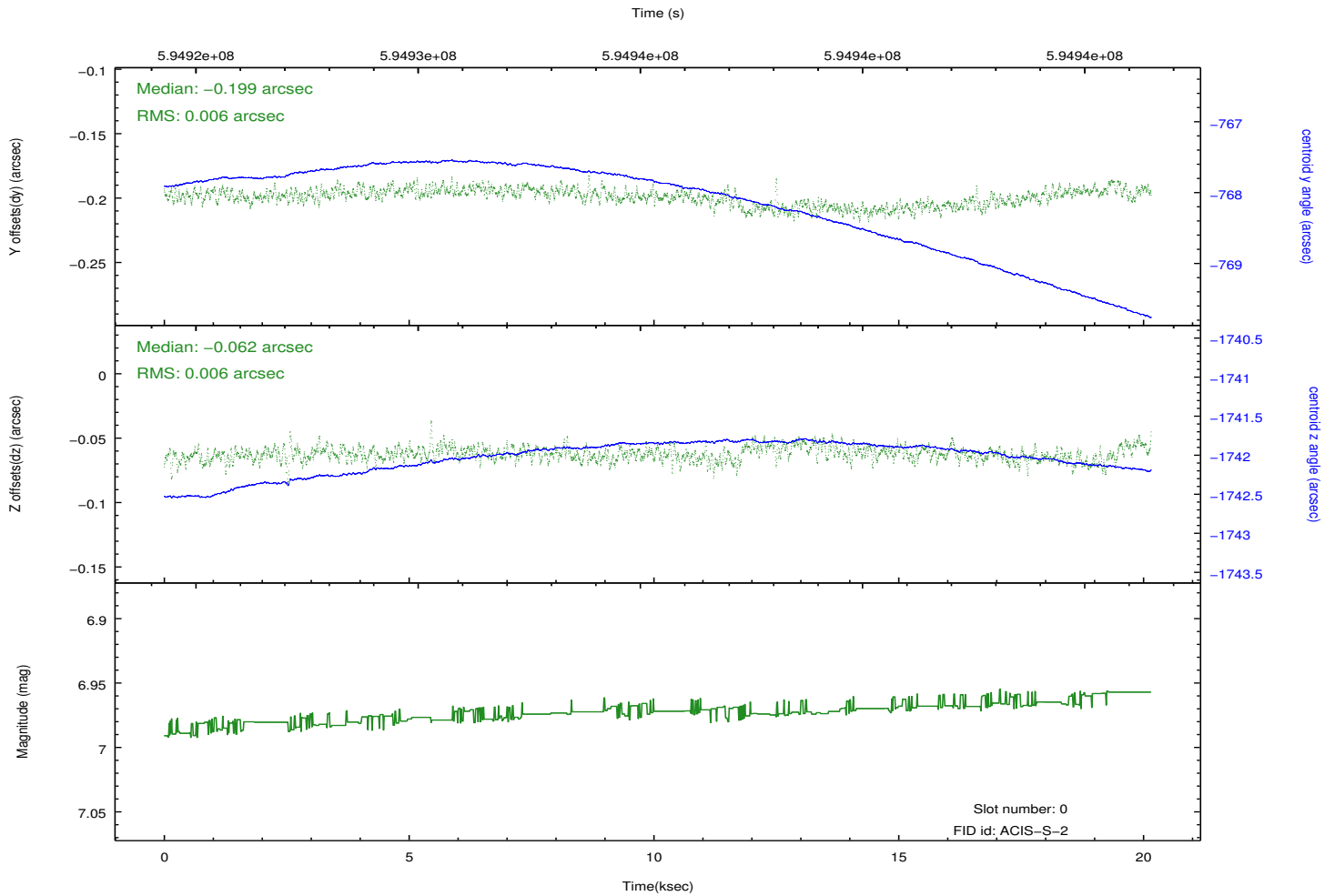
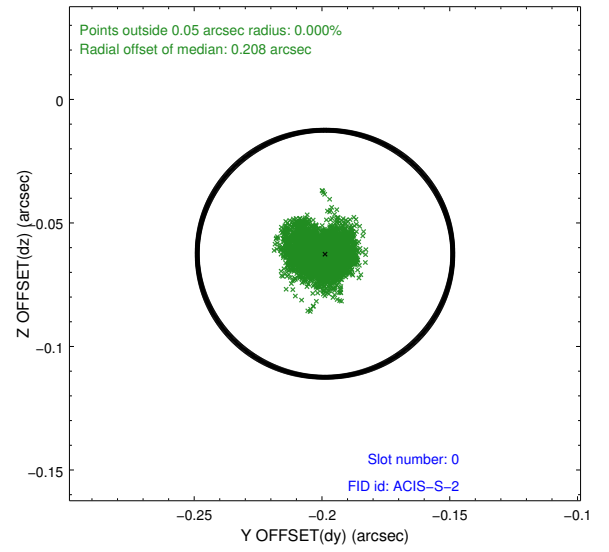
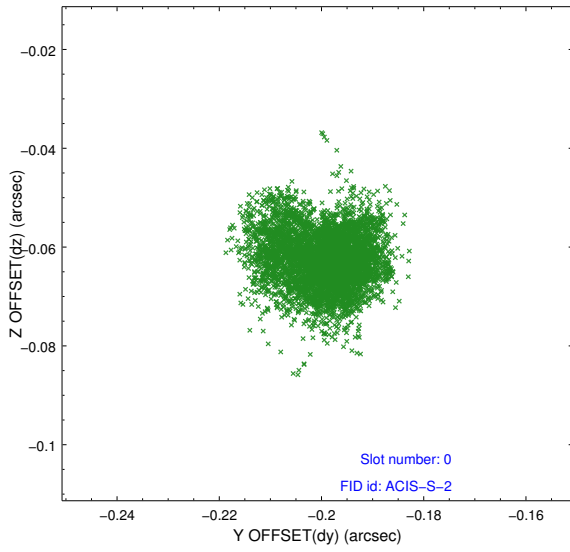


2.4.5 Slot 7

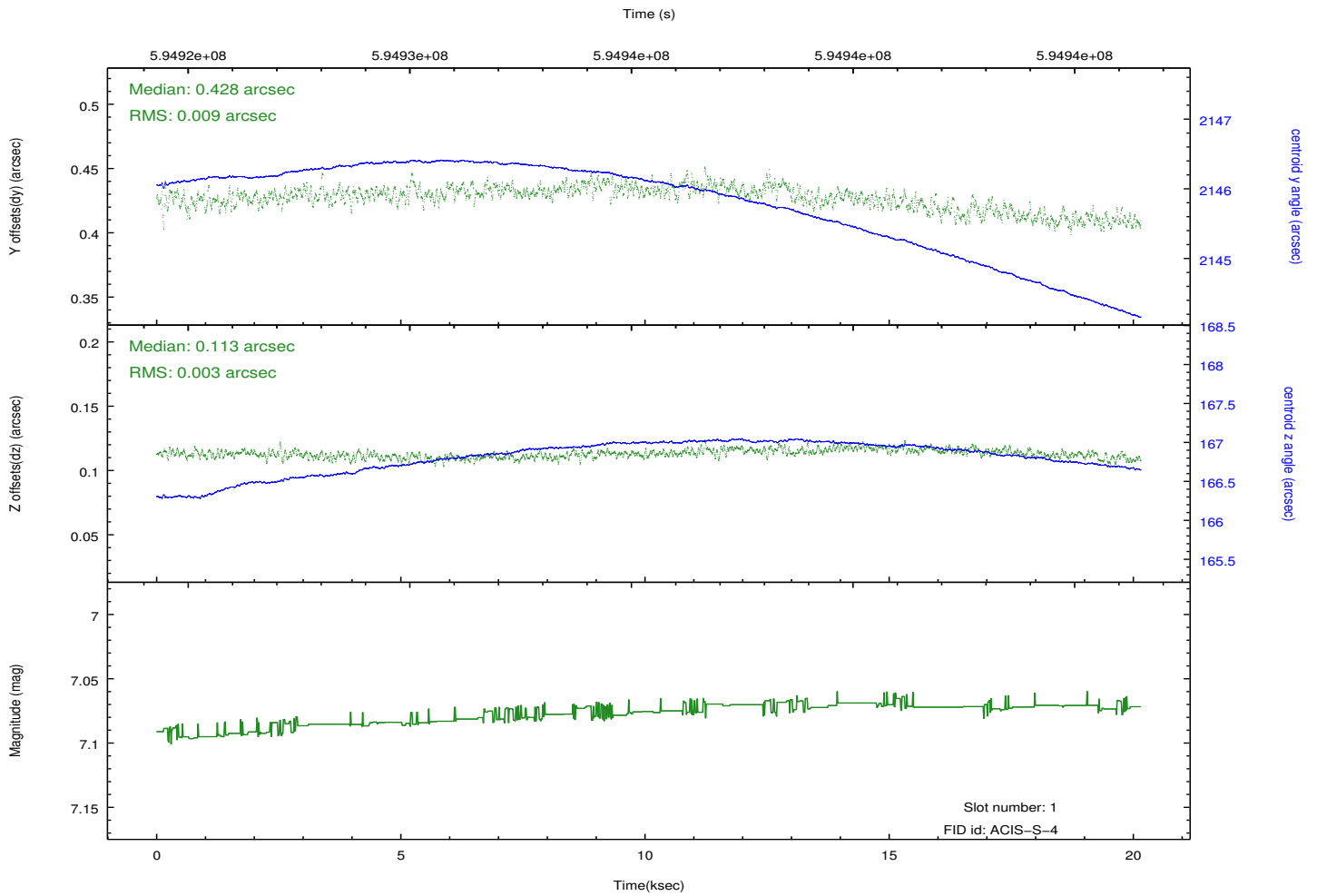
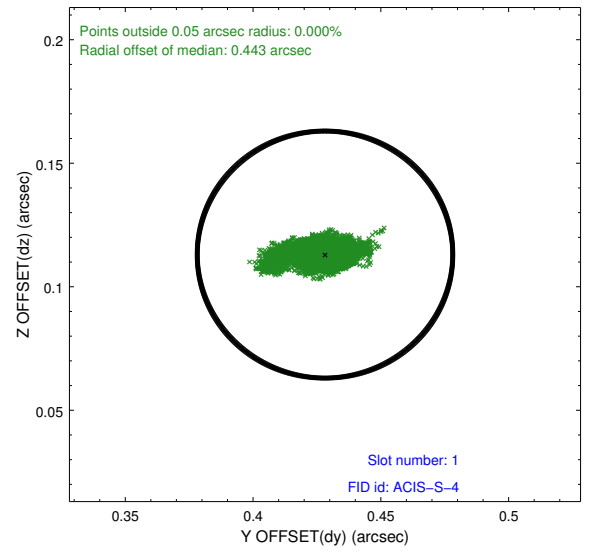
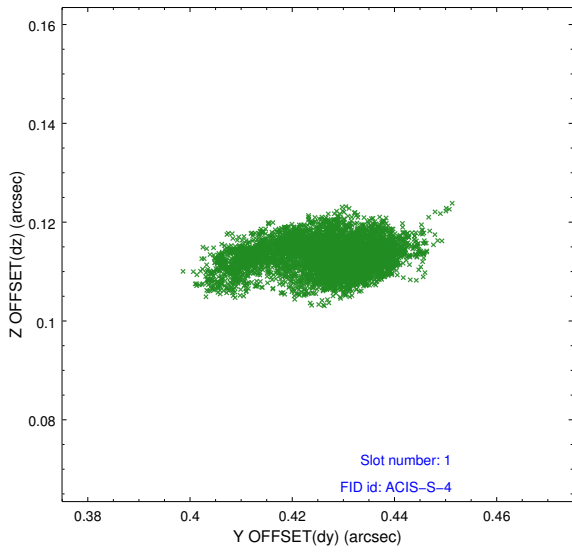


2.5 FID Slots

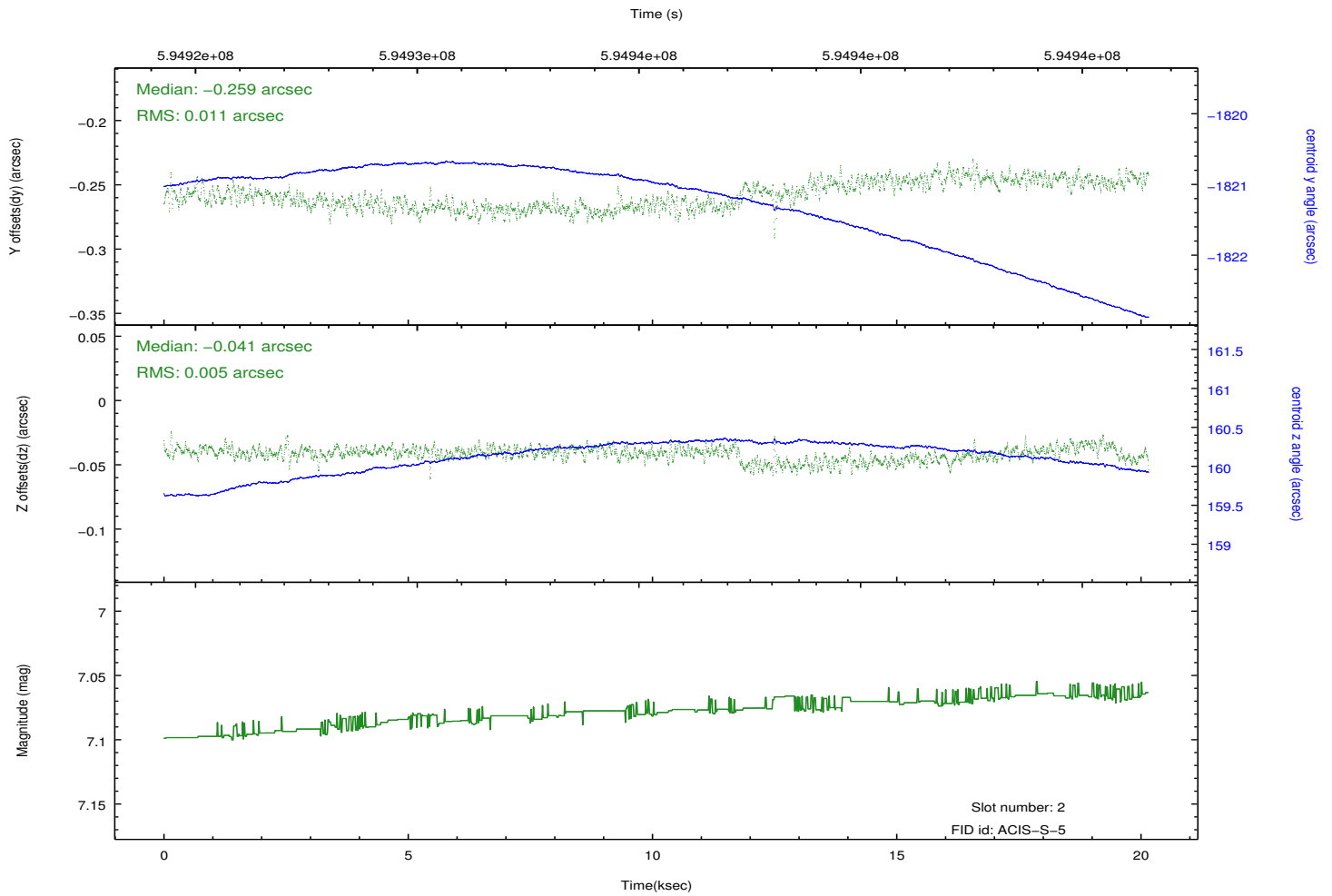
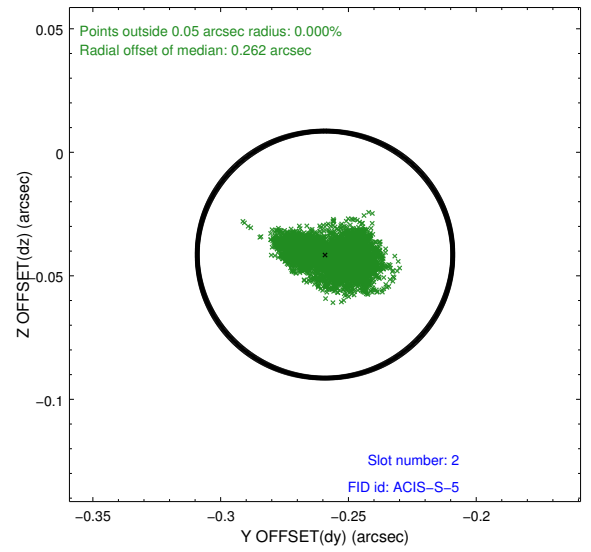
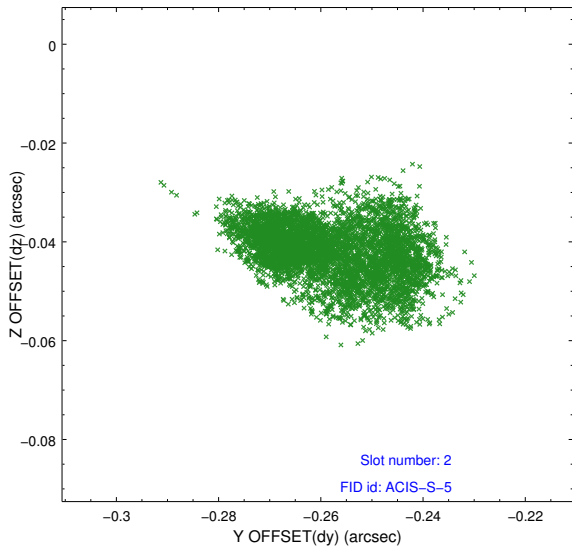
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.092930195332

A.2 Comments

Roll constraint met.